UI Bulletin #157b

Subject:	Roof Beacon Wiring Provisions
Models Years Affected:	2019 - beyond
Models Affected:	Chevrolet Silverado 1500-3500 GMC Sierra 1500 – 3500 (New Body Style only)
Origination Date:	August 21, 2019
Revision Date:	January 5, 2021

ADVISORY:

Condition/Concern:

Dealers and Upfitters looking for information regarding the installation of a Roof Mounted Beacon.

Repair/Recommendation:

All New Body Style Full-size pickups and Chassis Cabs have roof beacon wiring provisions that are routed along with the wiring for the Center High Mount Stop Lamp (CHMSL).

With Roof Spoiler

On vehicles w/the roof spoiler on the back of the passenger cab the wiring exits the vehicle along with the spoiler integrated CHSML wiring and is loosely spooled inside a cavity of the spoiler (refer to Figure 1). A hole must be drilled into the top surface of the spoiler to gain access to the wires. The size of the hole should match the size of the grommet discussed in the steps outline below.

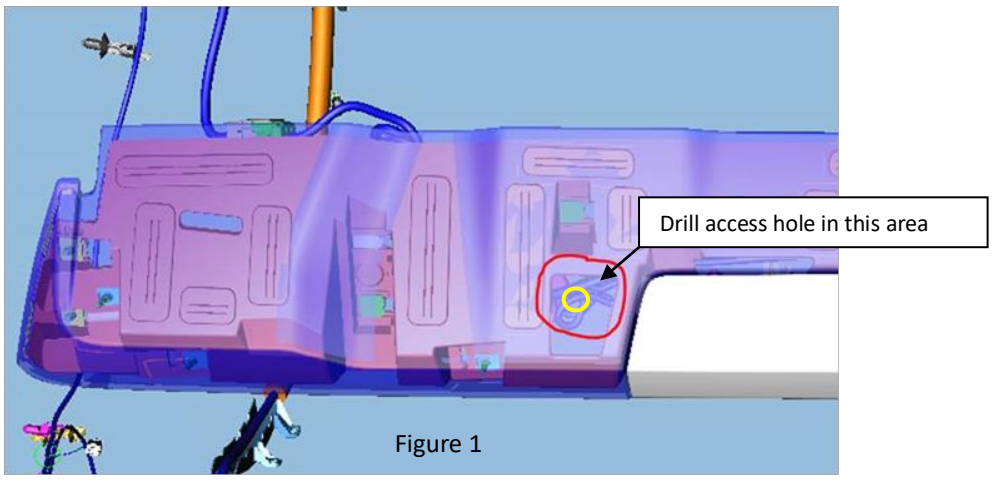

Figure 1

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1. Feed wires from the customer/upfitter provided roof beacon through the grommet selected to match the drilled hole.
2. Connect the beacon wires to the blunt cut wires (Beacon B+ to the Green/Blue/ Beacon Ground to Black). Recommendation is to use weatherproof connection/splice and that the splice locations be staggered for ease of insertion into through the drilled hole and into the spoiler cavity.
3. Insert splice into the hole/spoiler cavity
4. Install the grommet to seal the hole/wires.
5. Mount beacon in desired location

Without Roof Spoiler

On vehicles w/o the roof spoiler on the back of the passenger cab the wiring exits the vehicle along with the CHSML wiring. To access the wiring (blunt cut) provisions remove the 2 screws securing the CHMSL to the roof (refer to figure 2). Disconnect the CHMSL electrical connector.

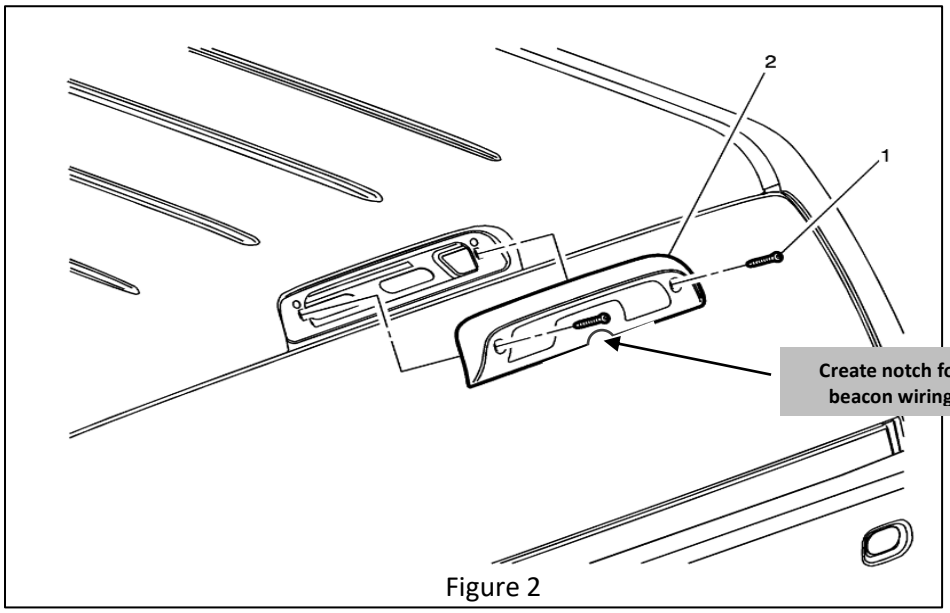

Figure 2

1. Connect the beacon wires to the blunt cut wires (Beacon B+ to the Green/Blue/ Beacon Ground to Black). Recommendation is to use weatherproof connection/splice and that the splice locations be staggered for ease of insertion into the opening in the cab roof.
2. Create a small notch on the bottom of the CHMSL using a round (rat-tail) file to route the wires through.
3. Insert splice into the cab roof opening
4. Re-install the CHMSL (be sure to route the wires in the notch to avoid pinching).
5. Seal notch with a dab of black sealer.
6. Mount beacon in desired location

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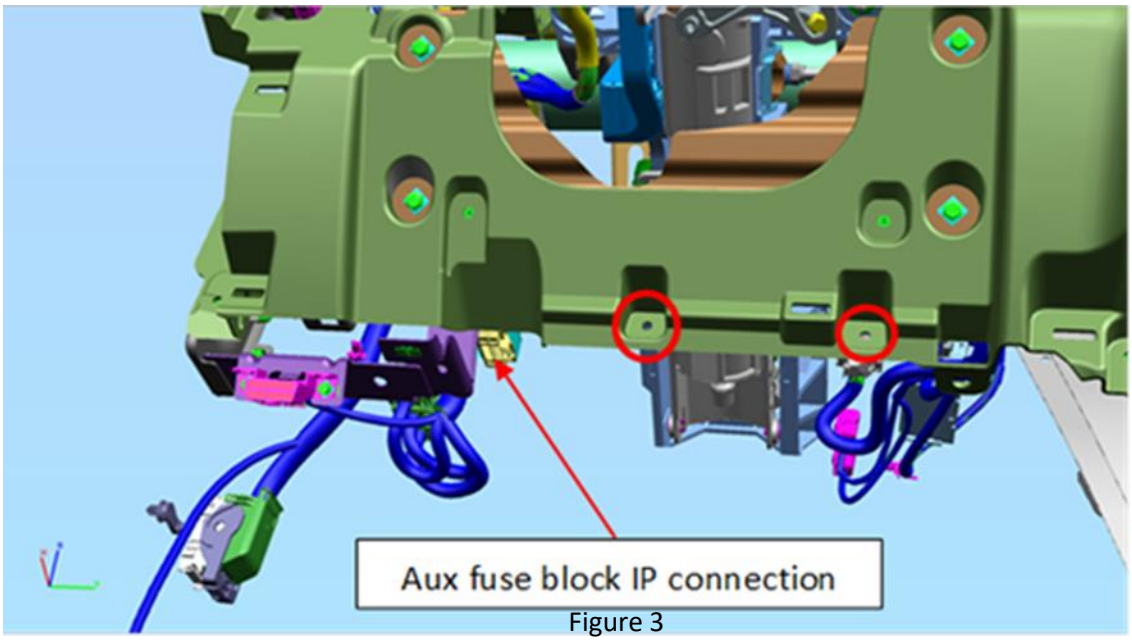
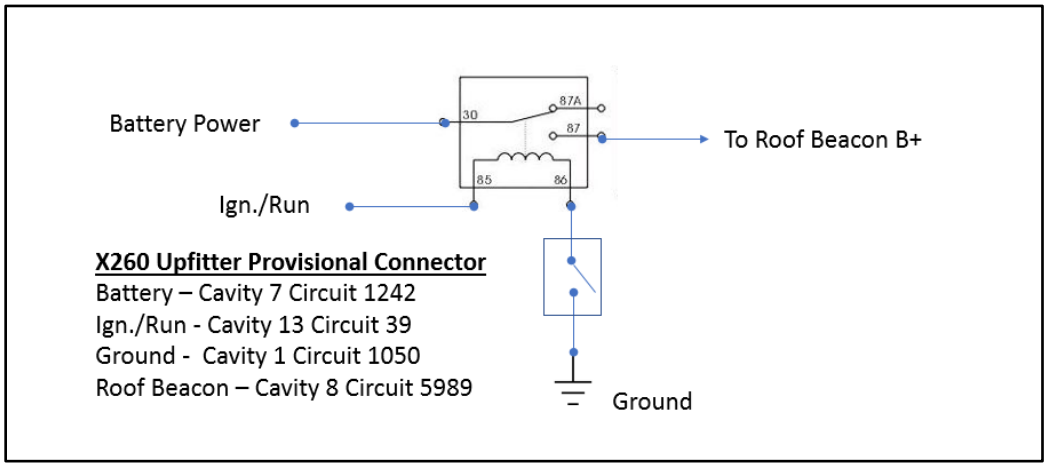


Figure 3

Inside cab Wiring

The inside the cab wiring provisions are in a connector located under the Instrument Panel as shown above in figure 3. This connector has its mating connector installed as a protection for the terminals in the IP harness side of the connector. This mating connector/cap can be used to connect a relay/switch (customer/upfitter provided) to power the beacon by populating the cavities for the circuits required to activate a relay (suggested) and for switch power/ground. See suggested mechanization below.



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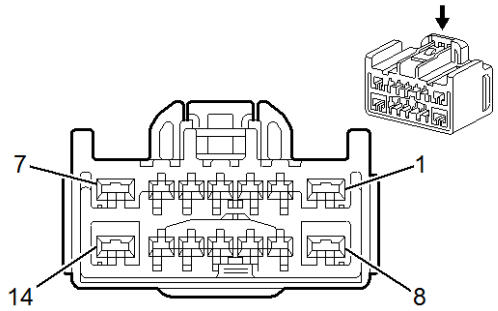
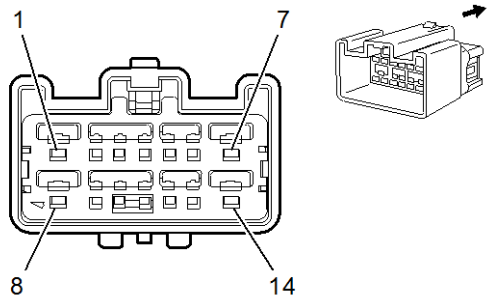
X260 Auxiliary Instrument Panel Harness to Instrument Panel Harness



Connector Part Information

- Harness Type: Auxiliary Instrument Panel
- OEM Connector: 10847017
- Service Connector: 13513605
- Description: 14-Way F 1.5, 2.8 Series (L-GY)



Connector Part Information

- Harness Type: Instrument Panel
- OEM Connector: 10846900
- Service Connector: 88956523
- Description: 14-Way M 1.5, 2.8 Series (L-GY)

Terminal Part Information							
Terminal Type ID	**Terminated Lead**	**Diagnostic Test Probe**	**Terminal Removal Tool**	**Service Terminal**	**Tray Name**	**Core Crimp**	**Insulation Crimp**
I	13587516	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	13575708	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	13575818	J-35616-3 (GY)	J-38125-553	Not Available	Not Available	Not Available	Not Available
IV	13575824	J-35616-5 (PU)	J-38125-11A	7114-4112-02	Yazaki 9	C	D

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Pin	**Size**	**Color**	**Circuit**	**Terminal Type ID**	**Option**	**Function**	**Pin**	**Size**	**Color**	**Circuit**	**Terminal Type ID**	**Option**
1	0.75	BK	1050	I	—	Ground	1	2	BK	1250	IV	—
2	—	—	—	II	—	Not Occupied	2	—	—	—	—	—
3	0.35	YE	6817	II	—	LED Backlight Dimming Control	3	0.5	YE	6817	III	—
4	0.35	WH/VT	6821	II	—	Surveillance Switch Signal	4	0.35	WH/VT	6821	III	—
5	0.5	WH/BU	3691	II	—	Trailer Brake Apply Signal	5	0.5	WH/BU	3691	III	—
6	—	—	—	II	—	Accessory Voltage	6	0.35	VY/YE	43	IV	—
7	2	RD/VT	1242	I	—	Battery Positive Voltage	7	2	RD/VT	1242	IV	—
8	2.5	GN/BU	5989	I	—	Emergency Lamp Relay Contact Control	8	2.5	GN/BU	5989	IV	—
9	—	—	—	II	—	Out of Park Signal	9	0.35	YE	6812	IV	
10	—	—	—	II	---	Vehicle Speed Signal	10	0.35	GN/GY	817	IV	
11	0.35	WH	6816	II	—	Indicator Dimming Control	11	0.35	WH	6816	III	—
12	—	—	—	II	—	Not Occupied	12	—	—	—	—	—
13	0.5	VT/GN	39	II	—	Run/Crank Ignition 1 Voltage	13	0.35	VT/WH	239	III	—
14	2	BU	47	I	—	Trailer Auxiliary Control	14	2	BU	47	IV	—

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